

**SYSTEMS ENGINEERING BRANCH
MONTHLY REPORT
FOR
DECEMBER 1960**

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MONTHLY REPORT
1 December - 31 December 1960

SYSTEMS ENGINEERING BRANCH
ENGINEERING STAFF

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2. The work by the R&D Laboratory on the development of the Model 28 One Time Pad machine has progressed to the point where limited operation of the equipment has been possible. However, difficulties have been experienced with the transmitter distributor cam assemblies and it has been necessary to re-grind them to achieve proper operation. The equipment is now working to the extent that it will automatically supply 10 five letter groups to each line and the proper carriage return and line feed combinations. Actual mixing with key tape has not been accomplished.

3. FES has prepared a draft of a new revised form to be used for the submission of "Semi-Annual Field Engineering Reports" [redacted] Modification of the old forms were deemed advisable to achieve the following:

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A. Eliminate the reporting of several non-essential items.

B. Add several new reportable items which were deemed necessary to [redacted]

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C. Clarify definitions of "terms" used in the report and give specific instructions concerning items to be reported.

It is expected that the new form will be submitted for approval soon. It will not impose additional work load on reporting activities. The revised form is for "Field Stations" only. Base Station forms will be revised at a later date, if necessary.

4. The Drafting Unit prepared 31 drawings during the month of December. [redacted] devoted several additional days assisting in the preparation of drawings for the OC Signal Center in the Agency's New Headquarter's Building at Langley, Virginia.

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5. [redacted] returned from his extended TDY to the EUCA, MECA, WEMCA and SEACA areas where he supervised and assisted in the preparations for the installation of LP antennas. (See Trip Report attached).

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